



January 21, 2023

Mr. Terry Stilman
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, SW, 11th Floor
Atlanta, Georgia 30303

**Subject: Draft Summary of Response Activities
Moody Landfill Fire
Moody, St. Clair County, Alabama
EPA Contract No.: 68HE0519D0006
Task Order / Task Order Line Item No.: 68HE0419F0082 / 82-059**

Dear Mr. Stilman:

The Tetra Tech, Inc. Superfund Technical Assessment and Response Team (Tetra Tech START) submits this letter summarizing emergency response activities associated with the Environmental Landfill, Inc. (Environmental Landfill), known as the Moody Landfill Fire, site (the site) in Moody, St. Clair County, Tennessee, from January 6 through 7, 2023. This letter includes three enclosures and two attachments. Enclosure 1 contains figures illustrating the site location and site layout with air sampling and air monitoring locations. Enclosure 2 includes sample location and air sampling and air monitoring data summary tables. Enclosure 3 contains the photographic log of site activities. Attachment 1 contains National Response Center (NRC) Incident Report No. 1356206. Attachment 2 contains the Particulate Matter Less Than 2.5 Microns (PM_{2.5}) Community Action Threshold Levels table.

SITE BACKGROUND

On December 28, 2022, an anonymous caller notified the National Response Center (NRC Incident Report No. 1356206) of the fire at the Environmental Landfill. The Alabama Department of Environmental Management (ADEM) responded to the fire. The site has been burning since late November 2022, and residents have filed complaints about the smoke and potential health hazards.

The site is located at 1317 Annie Lee Road in Moody, St. Clair County, Alabama. The geographic coordinates of the site are 33.620049 degrees north and 86.527487 degrees west (see Figure 1 in Enclosure 1). The immediate area surrounding the site is bordered to the north, east, and northeast by woodlands and open fields. It is bordered to the southeast, south, west, and northwest by residences.

On January 4, 2023, ADEM requested EPA support to conduct air monitoring and air sampling activities at the site and EPA mobilized On-Scene Coordinator (OSC) Bryan Vasser and Tetra Tech START to the site.

RESPONSE ACTIVITIES

On January 6, 2023, EPA and Tetra Tech START mobilized to the site to conduct air monitoring and air sampling at onsite and offsite locations. EPA and Tetra Tech START arrived onsite, met with ADEM, St.

Clair County personnel, and Moody Fire Department personnel, and identified four air sampling and monitoring locations, two onsite and two at residences located southeast and south of the site (see Figure 2 in Enclosure 1). EPA tasked Tetra Tech START to conduct air monitoring at each location and three rounds of air sampling over a 24-hour period at each location (see Figure 2 in Enclosure 1). Each round of air sampling was collected over an 8-hour period.

On January 6, 2023, Tetra Tech START conducted the first round of air monitoring and air sampling at the locations identified in Figure 2 of Enclosure 1 and described in Table 1 of Enclosure 2 using the following equipment:

- Tetra Tech START deployed VIPER, a remote telemetry system, and conducted air monitoring at each location using the following equipment: RAE Systems AreaRAE Pro monitored for volatile organic compounds (VOCs), hydrogen sulfide, oxygen, carbon monoxide, and lower explosive limit; Honeywell Single-Point Monitor Flex monitored for hydrogen chloride gas using a mineral acid Chemcassette®; and TSI DustTrak DRX8533 monitored for PM_{2.5}.
- Tetra Tech START deployed air sampling equipment at each location and measured for the following analytes: Summa canisters collected air for VOC analysis and Gilian AirCon-2 (AirCon-2) and Allegro A100 high volume air sampling pumps collected particulate air via a preloaded cassette for polynuclear aromatic hydrocarbon analysis (PAH).

The second and third rounds of air sampling were collected from January 6, 2023 at 2045 hours through January 7, 2023 to 0645 hours and on January 7, 2023 from 0500 hours to 1500 hours, respectively. Laboratory analytical results detected the presence of VOCs at onsite and offsite locations and PAHs at onsite locations (see Tables 2 and 3 in Enclosure 2).

On January 7, 2023, EPA, at the request of ADEM, tasked Tetra Tech START to collect air samples for airborne asbestos. Tetra Tech START conducted air sampling for airborne asbestos for phase contrast microscopy (PCM) analysis at two onsite locations using the AirCon-2 sampling pumps (see Figure 2 in Enclosure 2). Laboratory analysis indicated the sample could not be analyzed via PCM due to the particulate overloading the sample medium; however, the sample was analyzed to determine the presence or absence of asbestos. Laboratory analytical results indicated no asbestos was detected (see Table 4 in Enclosure 2).

On January 7, 2023, EPA tasked Tetra Tech START to collect an air sample for VOC analysis using a 15-minute Summa canister. Tetra Tech START collected the VOC sample at the same location as the second airborne asbestos collection site (see Figure 2 in Enclosure 1). Laboratory analytical results detected the presence of VOCs (see Tables 1 and 2 in Enclosure 2).

On January 7, 2023, EPA and Tetra Tech START completed air monitoring at the site at approximately 1740 hours. See Table 5 in Enclosure 2 for air monitoring results collected from January 6 through January 7, 2023.

At approximately 1830 hours, EPA and Tetra Tech START demobilized from the site.

Mr. Terry Stilman
January 21, 2023
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If you have any questions regarding this letter, please contact Paul Prys at (678) 775-3106.

Sincerely,



Paul E. Prys II
START V Project Manager



Andrew F. Johnson
START V Program Manager

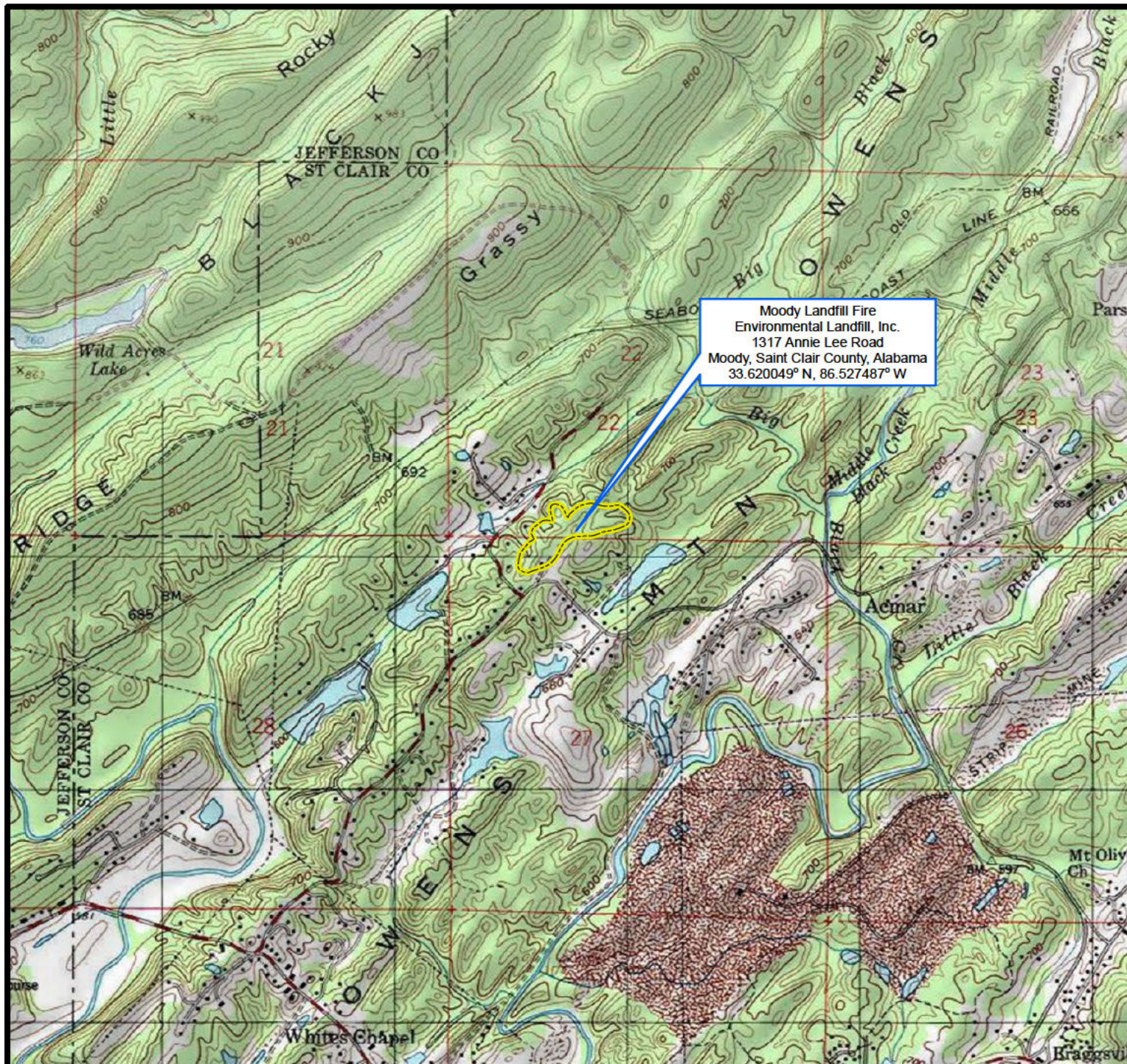
Enclosures (3)
Attachments (2)

cc: Bryan Vasser, EPA On-Scene Coordinator
Katrina Jones, EPA Project Officer
Angel Reed, START V Document Control Coordinator

ENCLOSURE 1

FIGURES

(Two pages)



Legend

Approximate Site Boundary



0 1,000 2,000
Feet

Map Sources:
USGS Topographic Quadrangles,
Argo, AL & Leeds, AL 1978.



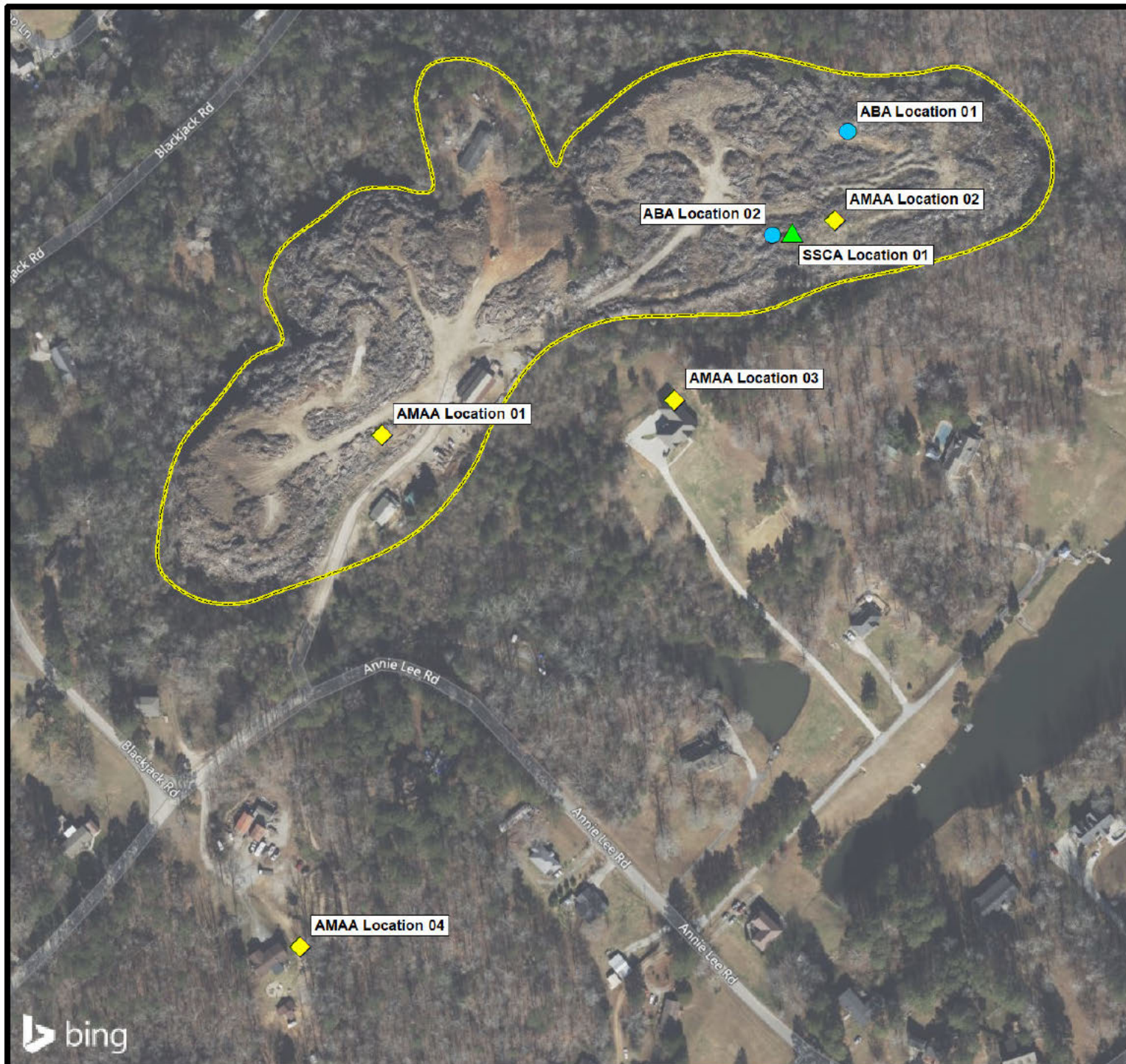
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FIGURE 1 Site Location

Site Name: Moody Landfill Fire
TOLIN No.: 82-059
City: Moody County: Saint Clair State: Alabama

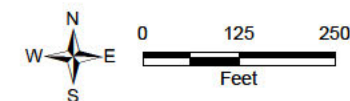


Date:
1/19/2023
Analyst:
dale.vonbusch



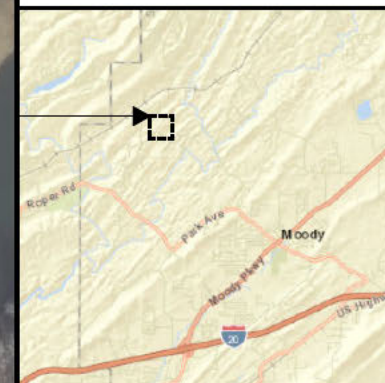
Legend

- ◆ Air Monitoring with Air Sampling Location
- ▲ Air Sampling Location
- Asbestos Air Sampling Location
- Approximate Site Boundary



Notes:
 ABA - Asbestos air sampling location
 AMAA - Air monitoring and sampling location
 SSCA - 15-minute air sampling location

Map Sources:
 Bing Aerial Imagery, 2020.



United States
 Environmental Protection Agency
 Region 4

FIGURE 2

Sampling and Monitoring
 Locations

Site Name: Moody Landfill Fire

TOLIN No.: 82-059

City:	County:	State:
Moody	St. Claire	Alabama



Date:
 1/19/2023
 Analyst:
 dale.vonbusch

ENCLOSURE 2
DATA SUMMARY TABLES
(18 pages)

TABLE 1
AIR SAMPLING AND AIR MONITORING INFORMATION

Sample Location	Location Description	Sample IDs	Instrument	Analytes Sampled	Latitude	Longitude
Air Monitoring and Air Sampling Locations						
Location 1	1317 Annie Lee Road - Southwestern portion of the landfill approx. 120 feet north of the onsite residence	MLF-SCA-L01-02-010623, MLF-SCA-L01-02-010623- DUP, MLF-SCA-L01-03- 010723	Summa canister	VOC	33.6191125	-86.5293794
		MLF-AA-L01-01-010623, MLF-AA-L01-01-010623- DUP, MLF-AA-L01-02- 010623, MLF-AA-L01-03- 010723	Gilian AirCon-2	PAH		
		Air Monitoring	AreaRAE Pro / DustTrak / SPM Flex	VOC, O2, H2S, CO, LEL / Particulate Air / Hydrogen Chloride		
Location 2	1317 Annie Lee Road - Northeastern portion of the landfill approx. 1,000 ft northeast of the onsite residence	MLF-SCA-L02-01-010623, MLF-SCA-L02-02-010623, MLF-SCA-L02-03-010723	Summa canister	VOC	33.6201433	-86.5267519
		MLF-AA-L02-01-010623, MLF-AA-L02-02-010623, MLF-AA-L02-03-010723	Gilian AirCon-2	PAH		
		Air Monitoring	AreaRAE Pro / DustTrak / SPM Flex	VOC, O2, H2S, CO, LEL / Particulate Air / Hydrogen Chloride		
Location 3	[REDACTED] Northeastern corner of rear carport	MLF-SCA-L03-01-010623, MLF-SCA-L03-02-010623, MLF-SCA-L03-03-010723	Summa canister	VOC	[REDACTED]	[REDACTED]
		MLF-AA-L03-01-010623, MLF-AA-L03-02-010623, MLF-AA-L03-03-010723	Gilian AirCon-2	PAH		
		Air Monitoring	AreaRAE Pro / DustTrak / SPM Flex	VOC, O2, H2S, CO, LEL / Particulate Air / Hydrogen Chloride		
Location 4	[REDACTED] Southern side of trampoline northeast of the residence	MLF-SCA-L04-01-010623, MLF-SCA-L04-02-010623, MLF-SCA-L04-03-010723	Summa canister	VOC	[REDACTED]	[REDACTED]
		MLF-AA-L04-01-010623, MLF-AA-L04-02-010623, MLF-AA-L04-03-010723	Gilian AirCon-2	PAH		
		Air Monitoring	AreaRAE Pro / DustTrak / SPM Flex	VOC, O2, H2S, CO, LEL / Particulate Air / Hydrogen Chloride		

TABLE 1
AIR SAMPLING AND AIR MONITORING INFORMATION

Sample Location	Location Description	Sample IDs	Instrument	Analytes Sampled	Latitude	Longitude
Air Sampling Locations						
Location 1	1317 Annie Lee Road - Northeastern portion of the landfill approx. 850 ft northeast of the onsite residence	MLF-ABA-L01-010723	Gilian AirCon-2	Asbestos	33.6205699	-86.5266754
Location 2	1317 Annie Lee Road - Northeastern portion of the landfill approx. 1,100 ft northeast of the onsite residence	MLF-SSCA-L01-010723	Summa canister	VOC	33.6200702	-86.5271123
		MLF-ABA-L02-010723	Gilian AirCon-2	Asbestos		

Notes:

AA: Area air sample
 ABA: Asbestos air sample
 Approx.: Approximately
 DUP: Duplicate
 ft: Feet
 L##: Sample location
 MLF: Moody Landfill Fire
 PAH: Polynuclear aromatic hydrocarbon
 SCA: Summa canister air sample
 SPM: Single-point monitor
 SSCA: Small Summa canister air sample
 VOC: Volatile organic compounds

TABLE 2
LABORATORY ANALYTICAL RESULTS FOR PAH - VALIDATED

Analyte	MLF-AA-L01-01-010623	MLF-AA-L01-01-010623-DUP	MLF-AA-L01-02-10623	MLF-AA-L01-03-010623
PAH (µg/m³)				
Acenaphthene	7.6 U	7.6 U	8.4 U	6.5 U
Acenaphthylene	7.6 U	7.6 U	8.4 U	6.5 U
Anthracene	1.5 U	1.5 U	1.7 U	1.3 U
Benz(a)anthracene	1.5 U	1.5 U	1.7 U	1.3 U
Benzo(a)pyrene	1.5 U	1.5 U	1.7 U	1.3 U
Benzo(b)fluoranthene	1.8	1.5 U	1.7 U	1.3 U
Benzo(ghi)perylene	1.5 U	1.5 U	1.7 U	1.3 U
Benzo(k)fluoranthene	1.5 U	1.5 U	1.7 U	1.3 U
Chrysene	1.5 U	1.5 U	1.7 U	1.3 U
Dibenz(a,h)anthracene	1.5 U	1.5 U	1.7 U	1.3 U
Fluoranthene	7.6 U	7.6 U	8.4 U	6.5 U
Fluorene	7.6 U	7.6 U	8.4 U	6.5 U
Indeno(1,2,3-cd)pyrene	1.5 U	1.5 U	1.7 U	1.3 U
Naphthalene	7.6 U	7.6 U	8.4 U	6.5 U
Phenanthrene	1.5 U	1.5 U	1.7 U	1.3 U
Pyrene	4.6	3.7	4.6	1.4

TABLE 2
LABORATORY ANALYTICAL RESULTS FOR PAH - VALIDATED

Analyte	MLF-AA-L02-01-010623	MLF-AA-L02-02-10623	MLF-AA-L02-03-010623
PAH (µg/m³)			
Acenaphthene	8.7 U	7.7 U	8.0 U
Acenaphthylene	8.7 U	7.7 U	8.0 U
Anthracene	1.7 U	1.5 U	1.6 U
Benz(a)anthracene	1.7 U	1.5 U	1.6 U
Benzo(a)pyrene	1.7 U	1.5 U	1.6 U
Benzo(b)fluoranthene	8.9	5.3	2.5
Benzo(ghi)perylene	1.7 U	1.5 U	1.6 U
Benzo(k)fluoranthene	1.7 U	1.5 U	1.6 U
Chrysene	1.7 U	1.5 U	3.9
Dibenz(a,h)anthracene	1.7 U	1.5 U	1.6 U
Fluoranthene	8.7 U	7.7 U	8.0 U
Fluorene	8.7 U	7.7 U	8.0 U
Indeno(1,2,3-cd)pyrene	1.7 U	1.5 U	1.6 U
Naphthalene	8.7 U	7.7 U	8.0 U
Phenanthrene	7.2	5.4	1.6 U
Pyrene	10.9	10.2	4.7

TABLE 2
LABORATORY ANALYTICAL RESULTS FOR PAH - VALIDATED

Analyte	MLF-AA-L03-01-010623	MLF-AA-L03-02-10623	MLF-AA-L03-03-010623
PAH ($\mu\text{g}/\text{m}^3$)			
Acenaphthene	8.6 U	7.8 U	8.1 U
Acenaphthylene	8.6 U	7.8 U	8.1 U
Anthracene	1.7 U	1.6 U	1.6 U
Benz(a)anthracene	1.7 U	1.6 U	1.6 U
Benzo(a)pyrene	1.7 U	1.6 U	1.6 U
Benzo(b)fluoranthene	1.7 U	1.6 U	1.6 U
Benzo(ghi)perylene	1.7 U	1.6 U	1.6 U
Benzo(k)fluoranthene	1.7 U	1.6 U	1.6 U
Chrysene	1.7 U	1.6 U	1.6 U
Dibenz(a,h)anthracene	1.7 U	1.6 U	1.6 U
Fluoranthene	8.6 U	7.8 U	8.1 U
Fluorene	8.6 U	7.8 U	8.1 U
Indeno(1,2,3-cd)pyrene	1.7 U	1.6 U	1.6 U
Naphthalene	8.6 U	7.8 U	8.1 U
Phenanthrene	1.7 U	1.6 U	1.6 U
Pyrene	1.7 U	1.6 U	1.6 U

TABLE 2
LABORATORY ANALYTICAL RESULTS FOR PAH - VALIDATED

Analyte	MLF-AA-L04-01-010623	MLF-AA-L04-02-10623	MLF-AA-L04-03-010623
PAH ($\mu\text{g}/\text{m}^3$)			
Acenaphthene	9.6 U	7.7 U	7.7 U
Acenaphthylene	9.6 U	7.7 U	7.7 U
Anthracene	1.9 U	1.5 U	1.5 U
Benz(a)anthracene	1.9 U	1.5 U	1.5 U
Benzo(a)pyrene	1.9 U	1.5 U	1.5 U
Benzo(b)fluoranthene	1.9 U	1.5 U	1.5 U
Benzo(ghi)perylene	1.9 U	1.5 U	1.5 U
Benzo(k)fluoranthene	1.9 U	1.5 U	1.5 U
Chrysene	1.9 U	1.5 U	1.5 U
Dibenz(a,h)anthracene	1.9 U	1.5 U	1.5 U
Fluoranthene	9.6 U	7.7 U	7.7 U
Fluorene	9.6 U	7.7 U	7.7 U
Indeno(1,2,3-cd)pyrene	1.9 U	1.5 U	1.5 U
Naphthalene	9.6 U	7.7 U	7.7 U
Phenanthrene	1.9 U	1.5 U	1.5 U
Pyrene	1.9 U	1.5 U	1.5 U

TABLE 2
LABORATORY ANALYTICAL RESULTS FOR PAH - VALIDATED

Notes:

BOLD Indicates analyte was positively identified at the associated value.

AA: Area air sample

DUP: Duplicate

L##: Sample location

MLF: Moody Landfill Fire

mmddyy: month, day, year

PAH: Polynuclear aromatic hydrocarbon

U: The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

$\mu\text{g}/\text{m}^3$: Microgram per cubic meter

TABLE 2
LABORATORY ANALYTICAL RESULTS FOR VOC - VALIDATED

Notes:

BOLD Indicates analyte was positively identified at the associated value.

DUP: Duplicate

J: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

J+: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.

L##: Sample location

MLF: Moody Landfill Fire

mmddyy: month, day, year

NA: Not analyzed

SCA: Summa canister air sample

SSCA: Small Summa canister air sample (15-minute)

U: The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ: The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

µg/m³: Microgram per cubic meter

VOC: Volatile organic compounds

TABLE 3
LABORATORY ANALYTICAL RESULTS FOR VOC - VALIDATED

ANALYTE	MLF-SCA-L01-01-010623	MLF-SCA-L01-02-010623	MLF-SCA-L01-02-010623-DUP	MLF-SCA-L01-03-010723
VOCs (µg/m³)				
1,1,1,2-Tetrachloroethane	0.676 U	NA	NA	NA
1,1,1-Trichloroethane	0.538 U	3.4 U	3.4 U	3.8 U
1,1,2,2-Tetrachloroethane	0.678 U	4.3 U	4.2 U	4.8 U
1,1,2-Trichloroethane	0.542 U	3.4 U	3.4 U	3.8 U
1,1-Dichloroethane	0.393 U	2.6 U	2.5 U	2.8 U
1,1-Dichloroethene	0.390 U	2.5 U	2.4 U	2.8 U
1,2,4-Trichlorobenzene	0.722 U	19 U	18 U	21 U
1,2,4-Trimethylbenzene	1.52	6.6	6.7	7.0
1,2-Dibromoethane	0.768 U	4.8 U	4.8 U	5.3 U
1,2-Dichlorobenzene	0.595 U	3.8 U	3.7 U	4.2 U
1,2-Dichloroethane	0.407 U	2.5 U	2.5 U	2.8 U
1,2-Dichloropropane	0.455 U	2.9 U	2.9 U	3.2 U
1,3,5-Trimethylbenzene	0.706	3.1 U	3.0 U	3.4 U
1,3-Butadiene	10.1	8.2	8.8	9.6
1,3-Dichlorobenzene	0.597 U	3.8 U	3.7 U	4.2 U
1,4-Dichlorobenzene	0.590 U	3.8 U	3.7 U	4.2 U
1,4-Dioxane	0.353 U	9.1 U	8.9 U	10 U
1-Bromopropane	0.488 U	NA	NA	NA
1-Octene	0.443 U	NA	NA	NA
2,2,4-Trimethylpentane	0.472 U	2.9 U	2.9 U	3.2 U
2-Chlorotoluene	0.510 U	NA	NA	NA
2-Hexanone (Methyl butyl ketone)	3.44	10 U	10 U	11 U
4-Ethyltoluene	1.13	9.4	10	11
Acetone	575	240	260	320
Acetonitrile	138	NA	NA	NA
Acrolein	8.17	NA	NA	NA
Acrylonitrile	1.70	NA	NA	NA
Allyl chloride (3-chloropropene)	0.330 U	7.9 U	7.8 U	8.7 U
Benzene	268	180	190	200
Benzyl chloride	0.509 U	3.3 U	3.2 U	3.6 U
Bromodichloromethane	0.661 U	4.2 U	4.2 U	4.6 U
Bromoethene (Vinyl bromide)	0.418 U	NA	NA	NA
Bromoform	1.01 U	6.5 U	6.4 U	7.2 U
Bromomethane	0.372 U	24 U	24 U	27 U
Carbon disulfide	1.07	7.8 U	7.7 U	8.6 U
Carbon tetrachloride	0.619 U	4.0 U	3.9 U	4.4 U
Chlorobenzene	0.463 U	2.9 U	2.8 U	3.2 U
Chloroethane	0.262 U	6.6 U	6.5 U	7.3 U

TABLE 3
LABORATORY ANALYTICAL RESULTS FOR VOC - VALIDATED

ANALYTE	MLF-SCA-L01-01-010623	MLF-SCA-L01-02-010623	MLF-SCA-L01-02-010623-DUP	MLF-SCA-L01-03-010723
VOCs (µg/m³)				
Chloroform	0.479 U	3.1 U	3.0 U	3.4 U
Chloromethane	14.4	13 U	13 U	14 U
cis-1,2-Dichloroethene	0.391 U	2.5 U	2.4 U	2.8 U
cis-1,3-Dichloropropene	0.440 U	2.8 U	2.8 U	3.2 U
Cyclohexane	2.58	0.54 J	0.97 J	0.77 J
Dibromochloromethane	0.839 U	5.4 U	5.3 U	5.9 U
Ethanol	23.6	13	18	19
Ethyl acetate	10.9	NA	NA	NA
Ethylbenzene	12.5	19	20	21
Freon 11 (CCl3F)	1.09	1.0 J	1.0 J	0.99 J
Freon 113 (C2Cl3F3)	0.760 U	4.8 U	4.8 U	5.3 U
Freon 114 (C2Cl2F4)	6.84 U	4.4 U	4.3 U	4.8 U
Freon 12 (CCl2F2)	1.99	2.1 J	2.3 J	2.2 J
Heptane	11.6	8.4	9.2	10
Hexachlorobutadiene	1.03 U	27 U	26 U	30 U
Hexane	15.6	8.7	9.8	10
Isopropyl alcohol	17.2	7.0	7.8	9.2
Isopropylbenzene	1.25	3.4	3.2	3.0 J
m-/p-Xylenes	21.6	34	34	38
Methyl ethyl ketone (2-Butanone)	183	85	93	110
Methyl isobutyl ketone	2.37	2.6 U	1.6 J	1.7 J
Methyl methacrylate	1.22	NA	NA	NA
Methyl tert-butyl ether	0.362 U	9.1 U	8.9 U	10 U
Methylene chloride	0.616	22 U	22 U	24 U
Naphthalene	3.07	NA	NA	NA
n-Octane	4.52	NA	NA	NA
n-Propylbenzene	0.920	NA	NA	NA
o-Xylene	6.22	11	12	14
Propylene	426	2.6 J	2.7 J	2.7 J
Styrene	1.96	5.8	6.1	6.1
Tetrachloroethene	0.678 U	4.3 U	4.2 U	4.7 U
Tetrahydrofuran	71.3	34	35	39
Toluene	139	110	120	130
trans-1,2-Dichloroethene	0.395 U	2.5 U	2.4 U	2.8 U
trans-1,3-Dichloropropene	0.458 U	2.8 U	2.8 U	3.2 U
Trichloroethene	0.531 U	3.4 UJ	36 J	3.7 U
Vinyl acetate	0.329 J	NA	NA	NA
Vinyl chloride	0.250 U	1.6 U	1.6 U	1.8 U

TABLE 3
LABORATORY ANALYTICAL RESULTS FOR VOC - VALIDATED

ANALYTE	MLF-SCA-L02-01-010623	MLF-SCA-L02-02-010623	MLF-SCA-L02-03-010723
VOCs (µg/m³)			
1,1,1,2-Tetrachloroethane	0.732 U	NA	NA
1,1,1-Trichloroethane	0.583 U	3.8 U	3.8 U
1,1,2,2-Tetrachloroethane	0.734 U	4.8 U	4.8 U
1,1,2-Trichloroethane	1.17	3.8 U	3.8 U
1,1-Dichloroethane	0.425 U	2.8 U	2.8 U
1,1-Dichloroethene	0.422 U	2.8 U	2.8 U
1,2,4-Trichlorobenzene	0.782 U	21 U	21 U
1,2,4-Trimethylbenzene	9.79	13	9.2
1,2-Dibromoethane	0.832 U	5.3 U	5.3 U
1,2-Dichlorobenzene	0.644 U	4.2 U	4.2 U
1,2-Dichloroethane	0.441 U	2.8 U	2.8 U
1,2-Dichloropropane	0.439 J	3.2 U	3.2 U
1,3,5-Trimethylbenzene	4.08	6.0 J+	4.3 J+
1,3-Butadiene	12.9	14	13
1,3-Dichlorobenzene	0.646 U	4.2 U	4.2 U
1,4-Dichlorobenzene	0.639 U	4.2 U	4.2 U
1,4-Dioxane	0.382 U	0.71 J	10 U
1-Bromopropane	0.528 U	NA	NA
1-Octene	0.479 U	NA	NA
2,2,4-Trimethylpentane	3.80	3.2 U	3.9
2-Chlorotoluene	0.659	NA	NA
2-Hexanone (Methyl butyl ketone)	2.14	11 U	11 U
4-Ethyltoluene	5.13	19	13
Acetone	314	320	240
Acetonitrile	59.3	NA	NA
Acrolein	15.0	NA	NA
Acrylonitrile	3.07	NA	NA
Allyl chloride (3-chloropropene)	0.358 U	8.7 U	8.7 U
Benzene	236	260	200
Benzyl chloride	0.551 U	3.6 U	3.6 U
Bromodichloromethane	0.716 U	4.6 U	4.6 U
Bromoethene (Vinyl bromide)	0.453 U	NA	NA
Bromoform	1.10 U	7.2 U	7.2 U
Bromomethane	0.600	27 U	27 U
Carbon disulfide	1.13	8.6 U	8.6 U
Carbon tetrachloride	0.670 U	4.4 U	4.4 U
Chlorobenzene	0.502 U	0.63 J	0.55 J
Chloroethane	0.491	7.3 U	7.3 U

TABLE 3
LABORATORY ANALYTICAL RESULTS FOR VOC - VALIDATED

ANALYTE	MLF-SCA-L02-01-010623	MLF-SCA-L02-02-010623	MLF-SCA-L02-03-010723
VOCs (µg/m³)			
Chloroform	0.518 U	3.4 U	3.4 U
Chloromethane	38.3	14 U	14 U
cis-1,2-Dichloroethene	0.424 U	2.8 U	2.8 U
cis-1,3-Dichloropropene	0.477 U	3.2 U	3.2 U
Cyclohexane	6.15	1.7 J	1.2 J
Dibromochloromethane	0.909 U	5.9 U	5.9 U
Ethanol	26.7	17	13 J
Ethyl acetate	5.41	NA	NA
Ethylbenzene	31.1	42	32
Freon 11 (CCl3F)	1.38	1.1 J	1.2 J
Freon 113 (C2Cl3F3)	0.823 U	5.3 U	5.3 U
Freon 114 (C2Cl2F4)	7.41 U	4.8 U	4.8 U
Freon 12 (CCl2F2)	2.08	2.4 J	2.2 J
Heptane	19.2	17	12
Hexachlorobutadiene	1.11 U	30 U	30 U
Hexane	21.4	22	16
Isopropyl alcohol	6.52	8.1	5.6 J
Isopropylbenzene	7.00	8.4	6.1
m-/p-Xylenes	50.4	63	44
Methyl ethyl ketone (2-Butanone)	86.2	100	76
Methyl isobutyl ketone	1.65	2.1 J	1.9 J
Methyl methacrylate	2.88	NA	NA
Methyl tert-butyl ether	0.392 U	10 U	10 U
Methylene chloride	0.609	24 U	24 U
Naphthalene	7.01	NA	NA
n-Octane	9.82	NA	NA
n-Propylbenzene	3.73	NA	NA
o-Xylene	16.5	22	16
Propylene	356	4.6	3.7
Styrene	11.3	15	15
Tetrachloroethene	0.965	4.7 U	4.7 U
Tetrahydrofuran	43.6	56	36
Toluene	161	190	130
trans-1,2-Dichloroethene	0.428 U	2.8 U	2.8 U
trans-1,3-Dichloropropene	0.496 U	3.2 U	3.2 U
Trichloroethene	0.575 U	3.7 U	38
Vinyl acetate	0.332 J	NA	NA
Vinyl chloride	0.270 U	1.8 U	1.8 U

TABLE 3
LABORATORY ANALYTICAL RESULTS FOR VOC - VALIDATED

ANALYTE	MLF-SCA-L03-01-010623	MLF-SCA-L03-02-010623	MLF-SCA-L03-03-010723
VOCs (µg/m³)			
1,1,1,2-Tetrachloroethane	0.749 U	NA	NA
1,1,1-Trichloroethane	0.597 U	3.4 U	3.7 U
1,1,2,2-Tetrachloroethane	0.751 U	4.2 U	4.7 U
1,1,2-Trichloroethane	0.601 U	3.4 U	3.7 U
1,1-Dichloroethane	0.435 U	2.5 U	2.8 U
1,1-Dichloroethene	0.432 U	2.4 U	2.7 U
1,2,4-Trichlorobenzene	0.800 U	18 U	20 U
1,2,4-Trimethylbenzene	2.22	3.3	1.7 J
1,2-Dibromoethane	0.851 U	4.8 U	5.2 U
1,2-Dichlorobenzene	0.659 U	3.7 U	4.1 U
1,2-Dichloroethane	0.451 U	2.5 U	2.8 U
1,2-Dichloropropane	0.504 U	2.9 U	3.1 U
1,3,5-Trimethylbenzene	1.02	3.0 U	3.3 U
1,3-Butadiene	2.58	4.0	1.8
1,3-Dichlorobenzene	0.661 U	3.7 U	4.1 U
1,4-Dichlorobenzene	0.654 U	3.7 U	4.1 U
1,4-Dioxane	0.391 U	8.9 U	9.8 U
1-Bromopropane	0.540 U	NA	NA
1-Octene	0.490 U	NA	NA
2,2,4-Trimethylpentane	0.587	2.9 U	3.2 U
2-Chlorotoluene	0.566 U	NA	NA
2-Hexanone (Methyl butyl ketone)	0.726	10 U	11 U
4-Ethyltoluene	1.32	4.5	2.3 J
Acetone	98.8	100	43
Acetonitrile	16.4	NA	NA
Acrolein	1.56	NA	NA
Acrylonitrile	0.379	NA	NA
Allyl chloride (3-chloropropene)	0.366 U	7.8 U	8.5 U
Benzene	71.0	91	40
Benzyl chloride	0.564 U	3.2 U	3.5 U
Bromodichloromethane	0.733 U	4.2 U	4.6 U
Bromoethene (Vinyl bromide)	0.463 U	NA	NA
Bromoform	1.12 U	6.4 U	7.0 U
Bromomethane	0.412 U	24 U	26 U
Carbon disulfide	0.363	7.7 U	8.5 U
Carbon tetrachloride	0.686 U	3.9 U	4.3 U
Chlorobenzene	0.513 U	0.53 J	3.1 U
Chloroethane	0.290 U	6.5 U	7.2 U

TABLE 3
LABORATORY ANALYTICAL RESULTS FOR VOC - VALIDATED

ANALYTE	MLF-SCA-L03-01-010623	MLF-SCA-L03-02-010623	MLF-SCA-L03-03-010723
VOCs (µg/m³)			
Chloroform	0.530 U	3.0 U	3.3 U
Chloromethane	7.20	13 U	14 U
cis-1,2-Dichloroethene	0.434 U	2.4 U	2.7 U
cis-1,3-Dichloropropene	0.488 U	2.8 U	3.1 U
Cyclohexane	1.24	0.49 J	2.3 U
Dibromochloromethane	0.930 U	5.3 U	5.8 U
Ethanol	12.3	9.7 J	5.7 J
Ethyl acetate	1.92	NA	NA
Ethylbenzene	9.42	14	6.4
Freon 11 (CCl3F)	1.58	1.2 J	1.0 J
Freon 113 (C2Cl3F3)	0.842 U	4.8 U	5.2 U
Freon 114 (C2Cl2F4)	7.58 U	4.3 U	4.8 U
Freon 12 (CCl2F2)	2.30	2.2 J	2.2 J
Heptane	4.69	5.0	2.2 J
Hexachlorobutadiene	1.14 U	26 U	29 U
Hexane	4.66	5.4	2.8
Isopropyl alcohol	15.2	2.6 J	6.7 U
Isopropylbenzene	2.32	3.9	1.5 J
m-/p-Xylenes	11.2	15	7.3
Methyl ethyl ketone (2-Butanone)	25.3	33	13
Methyl isobutyl ketone	0.769	2.5 U	2.8 U
Methyl methacrylate	0.670	NA	NA
Methyl tert-butyl ether	0.401 U	8.9 U	9.8 U
Methylene chloride	0.602	22 U	24 U
Naphthalene	1.77	NA	NA
n-Octane	2.31	NA	NA
n-Propylbenzene	0.979	NA	NA
o-Xylene	3.99	5.5	2.8 J
Propylene	74.8	1.5 J	0.59 J
Styrene	3.17	5.4	2.2 J
Tetrachloroethene	0.751 U	4.2 U	4.6 U
Tetrahydrofuran	11.1	15	5.8
Toluene	37.6	52	23
trans-1,2-Dichloroethene	0.438 U	2.4 U	2.7 U
trans-1,3-Dichloropropene	0.507 U	2.8 U	3.1 U
Trichloroethene	0.588 U	3.3 U	3.6 U
Vinyl acetate	0.390 U	NA	NA
Vinyl chloride	0.276 U	1.6 U	1.7 U

TABLE 3
LABORATORY ANALYTICAL RESULTS FOR VOC - VALIDATED

ANALYTE	MLF-SCA-L04-01-010623	MLF-SCA-L04-02-010623	MLF-SCA-L04-03-010723	MLF-SSCA-L01-01-010723
VOCs (µg/m³)				
1,1,1,2-Tetrachloroethane	0.727 U	NA	NA	NA
1,1,1-Trichloroethane	0.579 U	3.4 U	3.7 U	3.2 U
1,1,2,2-Tetrachloroethane	0.729 U	4.2 U	4.7 U	4.0 U
1,1,2-Trichloroethane	0.583 U	3.4 U	3.7 U	3.2 U
1,1-Dichloroethane	0.422 U	2.5 U	2.8 U	2.3 U
1,1-Dichloroethene	0.419 U	2.4 U	2.7 U	2.3 U
1,2,4-Trichlorobenzene	0.777 U	18 U	20 U	17 U
1,2,4-Trimethylbenzene	0.517 U	3.0 U	3.3 U	1.4 J
1,2-Dibromoethane	0.826 U	4.8 U	5.2 U	4.4 U
1,2-Dichlorobenzene	0.640 U	3.7 U	4.1 U	3.5 U
1,2-Dichloroethane	0.438 U	2.5 U	2.8 U	2.3 U
1,2-Dichloropropane	0.489 U	2.9 U	3.1 U	2.7 U
1,3,5-Trimethylbenzene	0.524 U	3.0 U	3.3 U	2.8 U
1,3-Butadiene	0.245	1.4 U	1.5 U	4.4
1,3-Dichlorobenzene	0.642 U	3.7 U	4.1 U	3.5 U
1,4-Dichlorobenzene	0.635 U	3.7 U	4.1 U	3.5 U
1,4-Dioxane	0.380 U	8.9 U	9.8 U	0.55 J
1-Bromopropane	0.524 U	NA	NA	NA
1-Octene	0.476 U	NA	NA	NA
2,2,4-Trimethylpentane	0.508 U	2.9 U	0.78 J	2.7 U
2-Chlorotoluene	0.549 U	NA	NA	NA
2-Hexanone (Methyl butyl ketone)	0.440 U	10 U	11 U	9.5 U
4-Ethyltoluene	0.525 U	3.0 U	3.3 U	1.9 J
Acetone	26.4	7.7 J	9.4 J	49
Acetonitrile	1.33	NA	NA	NA
Acrolein	0.340	NA	NA	NA
Acrylonitrile	0.232 U	NA	NA	NA
Allyl chloride (3-chloropropene)	0.355 U	7.8 U	8.5 U	7.3 U
Benzene	3.82	4.4	5.8	69
Benzyl chloride	0.547 U	3.2 U	3.5 U	3.0 U
Bromodichloromethane	0.711 U	4.2 U	4.6 U	3.9 U
Bromoethene (Vinyl bromide)	0.449 U	NA	NA	NA
Bromoform	1.09 U	6.4 U	7.0 U	6.0 U
Bromomethane	0.400 U	24 U	26 U	22 U
Carbon disulfide	3.08	7.7 U	8.5 U	7.2 U
Carbon tetrachloride	0.666 U	3.9 U	4.3 U	3.6 U
Chlorobenzene	0.498 U	2.8 U	3.1 U	0.71 J
Chloroethane	0.282 U	6.5 U	7.2 U	6.1 U

TABLE 3
LABORATORY ANALYTICAL RESULTS FOR VOC - VALIDATED

ANALYTE	MLF-SCA-L04-01-010623	MLF-SCA-L04-02-010623	MLF-SCA-L04-03-010723	MLF-SSCA-L01-01-010723
VOCs (µg/m³)				
Chloroform	0.515 U	3.0 U	3.3 U	2.8 U
Chloromethane	1.62	13 U	14 U	12 U
cis-1,2-Dichloroethene	0.421 U	2.4 U	2.7 U	2.3 U
cis-1,3-Dichloropropene	0.474 U	2.8 U	3.1 U	2.6 U
Cyclohexane	0.473	2.1 U	0.58 J	2.0 U
Dibromochloromethane	0.902 U	5.3 U	5.8 U	4.9 U
Ethanol	4.99	12 U	8.1 J	5.1 J
Ethyl acetate	0.640	NA	NA	NA
Ethylbenzene	0.603	0.81 J	0.95 J	17
Freon 11 (CCl3F)	1.37	0.99 J	1.1 J	3.2 U
Freon 113 (C2Cl3F3)	0.817 U	4.8 U	5.2 U	4.4 U
Freon 114 (C2Cl2F4)	7.36 U	4.3 U	4.8 U	4.0 U
Freon 12 (CCl2F2)	2.02	2.2 J	2.3 J	1.6 J
Heptane	1.24	2.5 U	2.8 U	3.2
Hexachlorobutadiene	1.11 U	26 U	29 U	25 U
Hexane	0.831	2.2 U	3.0	3.4
Isopropyl alcohol	0.731	6.1 U	6.7 U	5.7 U
Isopropylbenzene	0.525 U	3.0 U	3.3 U	3.2
m-/p-Xylenes	1.38	1.3 J	2.2 J	6.6
Methyl ethyl ketone (2-Butanone)	2.26	1.8 J	1.6 J	13
Methyl isobutyl ketone	0.447 U	2.5 U	2.8 U	2.4 U
Methyl methacrylate	0.450 U	NA	NA	NA
Methyl tert-butyl ether	0.389 U	8.9 U	9.8 U	8.4 U
Methylene chloride	0.468	22 U	24 U	20 U
Naphthalene	0.555 U	NA	NA	NA
n-Octane	0.450 J	NA	NA	NA
n-Propylbenzene	0.530 U	NA	NA	NA
o-Xylene	0.475	0.61 J	0.72 J	2.9
Propylene	5.03	3.0 U	3.3 U	0.75 J
Styrene	0.439 U	2.6 U	2.9 U	90
Tetrachloroethene	0.828	7.5	4.6 U	3.9 U
Tetrahydrofuran	0.689	0.89 J	0.63 J	4.9
Toluene	2.99	3.4	5.4	30
trans-1,2-Dichloroethene	0.425 U	2.4 U	2.7 U	2.3 U
trans-1,3-Dichloropropene	0.492 U	2.8 U	3.1 U	2.6 U
Trichloroethene	0.571 U	3.3 U	3.6 U	3.1 U
Vinyl acetate	0.378 U	NA	NA	NA
Vinyl chloride	0.268 U	1.6 U	1.7 U	1.5 U

TABLE 4
LABORATORY ANALYTICAL RESULTS FOR ASBESTOS

Sample Id	Location	T	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Sample Volume (l)	Limit of Detection (f/cc)	Fiber Concentration	
							Initial	Final	Average			f/mm ²	f/cc
MLF-ABA-L01-010723	ABA Location 1	AA	G6	11:05	14:28	203	10.15	10.14	10.145	2059.4	No asbestos detected ¹		
MLF-ABA-L02-010723	ABA Location 2	AA	G2	11:40	14:40	180	10.10	9.71	9.905	1782.9	No asbestos detected ¹		
MLF-ABA-FB-010723	Field Blank	B	NA	NA	NA	0.0	NA	NA	0.0	0.0	NA	NA	NA
MLF-ABA-LB-010723	Lot Blank	B	NA	NA	NA	0.0	NA	NA	0.0	0.0	NA	NA	NA

Notes:

- ¹: Sample was overloaded with particulates and was unable to be analyzed using NIOSH Method 7402 to be reported as a phase contrast microscopy equivalent. Sample was analyzed as an asbestos bulk sample using transmission electron microscopy to determine the presence or absence of asbestos.
- AA: Area air sample
ABA: Asbestos air sample
FB: Field blank
f/cc: Fibers per cubic centimeter
f/mm²: Fibers per squared millimeter
Id: Identification
L##: Sample location
l: Liters
LB: Lot blank
lpm: Liters per minute
Min: Minutes
MLF: Moody Landfill Fire
mmddyy: month, day, year
NA: Not analyzed
NIOSH: National Institute for Occupational Safety and Health
No: Number
T: Type of sample

TABLE 5

Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA's Viper wireless remote monitoring system.

Project Name: Moody Landfill Fire - 1/6/23 to 1/7/23

**From: 1/6/23
9:56 AM**

**To: 1/7/23
5:42 PM**



Location 1: 1317 Annie Lee Road -Northeastern portion of the landfill approx. 1,000 ft northeast of the onsite residence							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	1704	737	0 - 4811 ppb	536.6 ppb	9000 ppb
	CO	Yes	1704	1664	0 - 144 ppm	30.9 ppm	27 ppm
	H ₂ S	Yes	1704	356	0 - 1.6 ppm	0.2 ppm	0.33 ppm
	O ₂	No	1704	1704	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	1704	0	0 - 0 %	0 %	10 %
DustTrak 1	PM-2.5	See PM2.5 Action Level Sheet	1793	1793	1 - 79200 µg/m ³	1798.3 µg/m ³	See PM2.5 Action Level Sheet
SPM Flex 1	HCl	No	3584	3184	0 - 0.6 ppm	0.1 ppm	1.8 ppm

Location 2: 1317 Annie Lee Road -Northeastern portion of the landfill approx. 1,000 ft northeast of the onsite residence							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 2	VOC	No	1705	642	0 - 3525 ppb	362.1 ppb	9000 ppb
	CO	Yes	1705	1684	0 - 112 ppm	32 ppm	27 ppm
	H ₂ S	Yes	1705	228	0 - 1.2 ppm	0.1 ppm	0.33 ppm
	O ₂	Yes	1705	1705	12.4 - 21.6 %	16.8 %	<19.5 or >23 %
	LEL	No	1705	0	0 - 0 %	0 %	10 %
DustTrak 2	PM-2.5	See PM2.5 Action Level Sheet	1888	1882	-1 - 24100 µg/m ³	1543.5 µg/m ³	See PM2.5 Action Level Sheet
SPM Flex 2	HCl	Yes	4301	2162	0 - 8.5 ppm	0.1 ppm	1.8 ppm

Location 3: [REDACTED] Northeastern corner of rear carport							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 3	VOC	No	1705	789	0 - 533 ppb	31.7 ppb	9000 ppb
	CO	Yes	1705	776	0 - 114 ppm	6.3 ppm	27 ppm
	H ₂ S	Yes	1705	39	0 - 1 ppm	0 ppm	0.33 ppm
	O ₂	No	1705	1705	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	1705	0	0 - 0 %	0 %	10 %
DustTrak 3	PM-2.5	See PM2.5 Action Level Sheet	1688	1673	-1 - 1690 µg/m ³	154.3 µg/m ³	See PM2.5 Action Level Sheet
SPM Flex 3	HCl	No	476	14	0 - 0 ppm	0 ppm	1.8 ppm

Location 4: [REDACTED] - Southern side of trampoline northeast of the residence							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 4	VOC	No	1707	144	0 - 6217 ppb	84.7 ppb	9000 ppb
	CO	Yes	1707	210	0 - 95 ppm	3 ppm	27 ppm
	H ₂ S	Yes	1707	67	0 - 1.1 ppm	0 ppm	0.33 ppm
	O ₂	No	1707	1707	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	1707	0	0 - 0 %	0 %	10 %
DustTrak 4	PM-2.5	See PM2.5 Action Level Sheet	1574	1574	2 - 219 µg/m ³	27.2 µg/m ³	See PM2.5 Action Level Sheet
SPM Flex 4	HCl	No	10965	0	0 - 0 ppm	0 ppm	1.8 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
mg/m ³	milligrams per cubic meter
ppb	Parts per billion
ppm	Parts per million
PM	Particulate matter
µg/m ³	Micrograms per cubic meter

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	AEGL-1, 8-hr for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H ₂ S	Hydrogen Sulfide	AEGL-1, 8-hr
O ₂	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
PM-2.5	Particulate Matter <2.5 microns	
HCl	Hydrogen Chloride	AEGL-1, 8-hr

ENCLOSURE 3
PHOTOGRAPHIC LOG
(Six pages)



OFFICIAL PHOTOGRAPH NO. 1
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN: 82-059

Location: 1317 Annie Lee Road, Moody, St.
Clair County, Alabama

Orientation: South

Date: January 6, 2023

Photographer: Paul Prys, Tetra Tech START

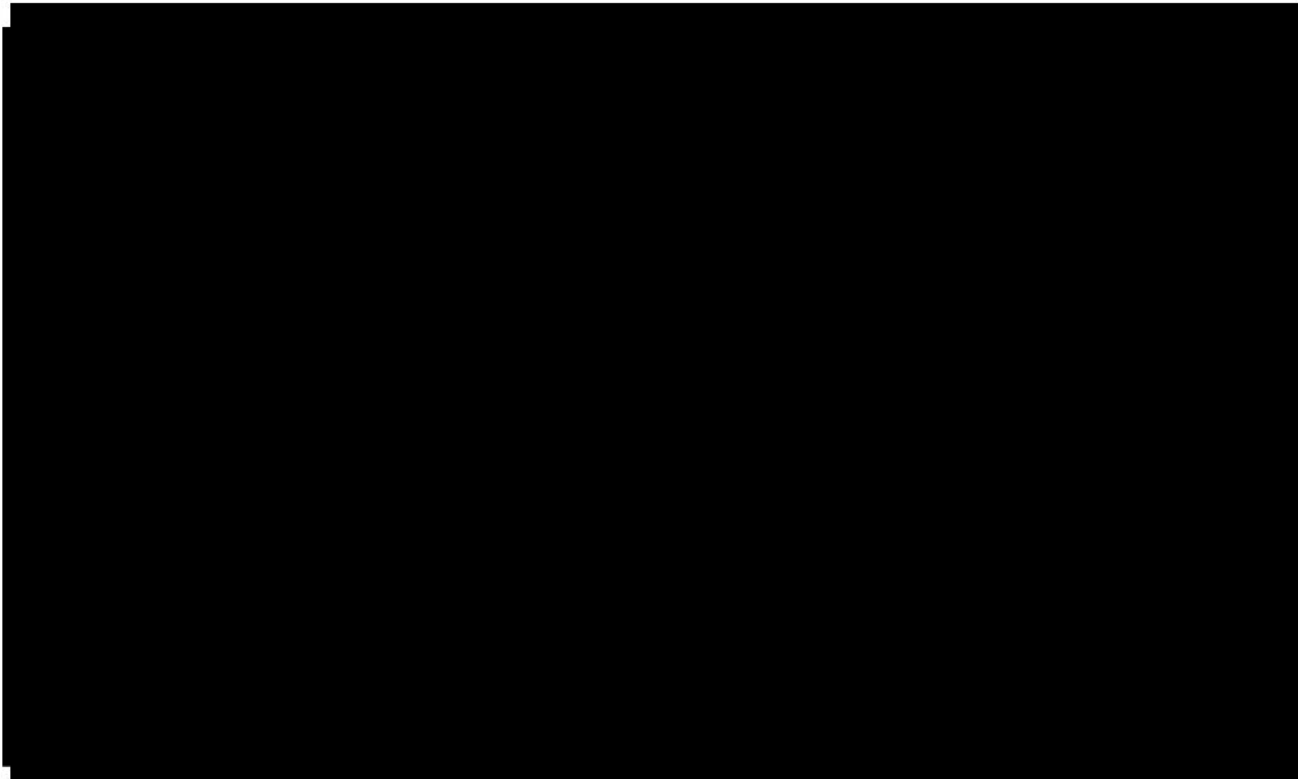
Witness: Julian Rizzi, Tetra Tech START

Subject: Tetra Tech START conducted air monitoring and air sampling on the southwestern portion of the landfill approximately 120 feet north of the onsite residence to determine if the smoke contained harmful byproducts that could threaten nearby residences. Tetra Tech START conducted air monitoring using a RAE Systems AreaRAE Pro (AreaRAE Pro), a Honeywell Single-Point Monitor Flex (SPM Flex), and a TSI DustTrak DRX8533 (DustTrak) and air sampling using a Summa canister and a Gilian AirCon-2 (AirCon-2) high volume air sampling pump. EPA and Tetra Tech START monitored the air monitoring results using the VIPER telemetry system.



OFFICIAL PHOTOGRAPH NO. 2
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-059	Location:	1317 Annie Lee Road, Moody, St. Clair County, Alabama
Orientation:	Southwest	Date:	January 2, 2023
Photographer:	Paul Prys, Tetra Tech START	Witness:	Paul Prys, Tetra Tech START
Subject:	Tetra Tech START conducted air monitoring and air sampling on the northeastern portion of the landfill approximately 1,000 feet northeast of the onsite residence to determine if the smoke contained harmful byproducts that could threaten nearby residences. Tetra Tech START conducted air monitoring using an AreaRAE Pro, a SPM Flex, and a DustTrak and air sampling using a Summa canister and an AirCon-2 high volume air sampling pump. EPA and Tetra Tech START monitored the air monitoring results using the VIPER telemetry system.		



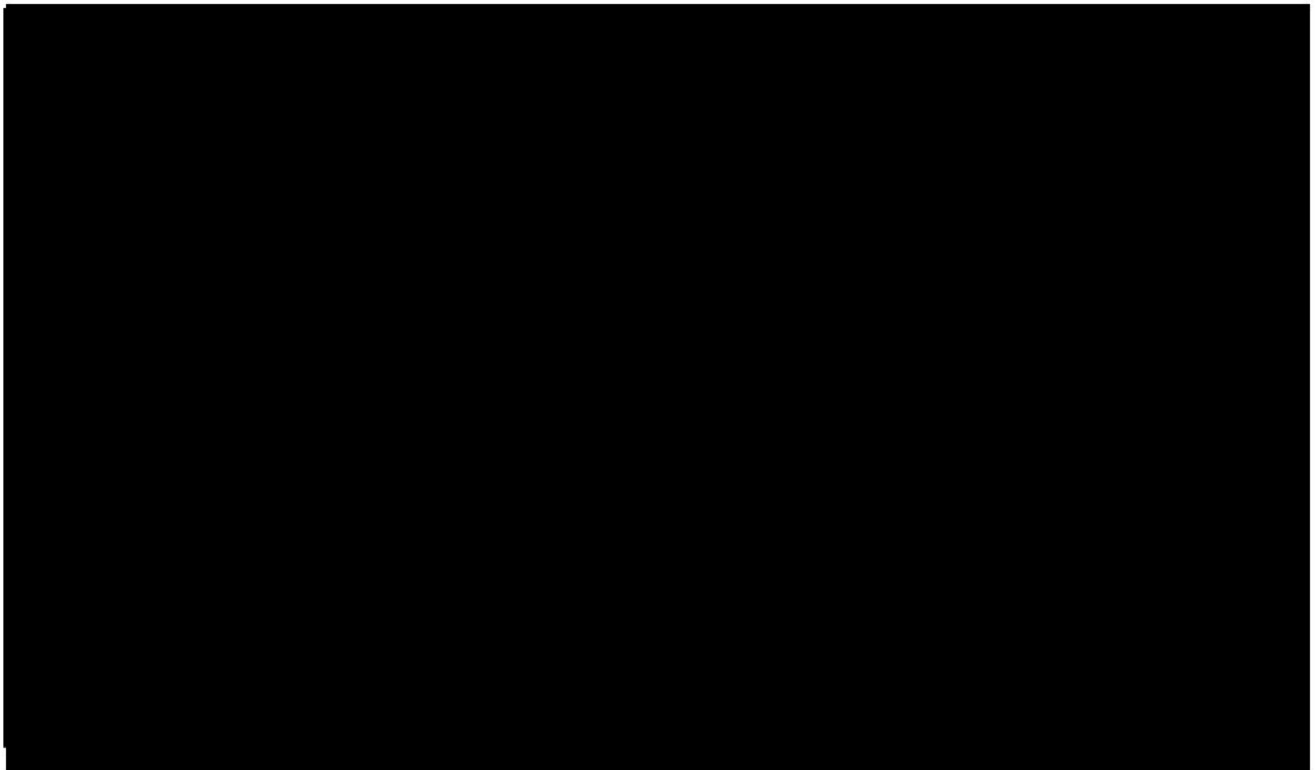
OFFICIAL PHOTOGRAPH NO. 3
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN: 82-059 **Location:** 1317 Annie Lee Road, Moody, St. Clair County, Alabama

Orientation: North **Date:** January 2, 2023

Photographer: Paul Prys, Tetra Tech START **Witness:** Paul Prys, Tetra Tech START

Subject: Tetra Tech START conducted air monitoring and air sampling at the northeastern corner of the rear carport of [REDACTED] to determine if the smoke contained harmful byproducts that could threaten nearby residences. Tetra Tech START conducted air monitoring using an AreaRAE Pro, a SPM Flex, and a DustTrak and air sampling using a Summa canister and an AirCon-2 high volume air sampling pump. EPA and Tetra Tech START monitored the air monitoring results using the VIPER telemetry system.



OFFICIAL PHOTOGRAPH NO. 4
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN: 82-059 **Location:** 1317 Annie Lee Road, Moody, St.
Clair County, Alabama

Orientation: North **Date:** January 2, 2023

Photographer: Paul Prys, Tetra Tech START **Witness:** Paul Prys, Tetra Tech START

Subject: Tetra Tech START conducted air monitoring and air sampling on the southern side of trampoline northeast of the residence at [REDACTED] to determine if the smoke contained harmful byproducts that could threaten nearby residences. Tetra Tech START conducted air monitoring using an AreaRAE Pro, a SPM Flex, and a DustTrak and air sampling using a Summa canister and an AirCon-2 high volume air sampling pump. EPA and Tetra Tech START monitored the air monitoring results using the VIPER telemetry system.



OFFICIAL PHOTOGRAPH NO. 5
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-059	Location:	1317 Annie Lee Road, Moody, St. Clair County, Alabama
Orientation:	West	Date:	January 2, 2023
Photographer:	Paul Prys, Tetra Tech START	Witness:	Paul Prys, Tetra Tech START
Subject:	Tetra Tech START conducted air sampling using an AirCon-2 high volume air sampling pump on the northeastern portion of the landfill approximately 850 feet northeast of the onsite residence to determine if the smoke contained airborne asbestos.		



OFFICIAL PHOTOGRAPH NO. 6
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-059	Location:	1317 Annie Lee Road, Moody, St. Clair County, Alabama
Orientation:	Southwest	Date:	January 2, 2023
Photographer:	Paul Prys, Tetra Tech START	Witness:	Julian Rizzi, Tetra Tech START
Subject:	Tetra Tech START conducted air sampling on the northeastern portion of the landfill approximately 1,100 feet northeast of the onsite residence to determine if the smoke contained harmful byproducts and airborne asbestos that could threaten nearby residences. Tetra Tech START conducted air sampling using a 15-minute Summa canister and an AirCon-2 high volume air sampling pump.		

ATTACHMENT 1

NATIONAL RESPONSE CENTER INCIDENT REPORT NO. 1356206

(Two pages)

ATTACHMENT 2

PARTICULATE MATTER LESS THAN 2.5 MICRONS COMMUNITY ACTION THRESHOLD LEVELS TABLE

(One page)

PM _{2.5} (Particulate Matter ≤ 2.5 microns) Community Action Threshold Levels				
1-Hour Average (µg/m ³)	24-Hour Average (µg/m ³)	Level of Health Concern	Meaning	Action
0.0 - 40.0	0.0-12.0	Good	Air Quality is considered satisfactory, and air pollution poses little or no risk.	Implement communication plan.
40.1 - 80.0	12.1 - 35.4	Moderate	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.	Issue public announcement about health effects. Stay out of areas with visible smoke.
80.1 - 175.0	35.5 - 55.4	Unhealthy for Sensitive Groups	Members of sensitive groups may experience health effects. The general public is not likely to be affected.	Recommend evacuation or shelter-in-place for sensitive populations.
175.1 - 300.0	55.5 - 150.4	Unhealthy	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.	Consider closing schools and cancelling outdoor events. Recommend shelter-in-place for affected neighborhoods.
300.1 - 500.0	150.5 - 250.4	Very Unhealthy	Health warnings of emergency conditions. The entire population is more likely to be affected.	Consider closing schools and cancel all outdoor events. Recommend shelter-in-place and/or evacuation for affected neighborhoods.
> 500.0	> 250.5	Hazardous	Health alert: everyone may experience more serious health effects.	Recommend closing schools & cancel outdoor events. Recommend closing workplaces and evacuating affected neighborhoods.